

ABSTRACT

The present invention is a precious metal-based amorphous alloy having a Pt-Cu-P based structure including 5 in atomic %: $50 \leq Pt \leq 75\%$, $5 \leq Cu \leq 35\%$, and $15 \leq P \leq 25\%$ and is a precious metal-based amorphous alloy having a Pt-Pd-Cu-P based structure including in atomic %: $5 \leq Pt \leq 70\%$, $5 \leq Pd \leq 50\%$, $5 \leq Cu \leq 50\%$, and $5 \leq P \leq 30\%$. Preferably, cooling rates for manufacturing the alloys having these compositions are 10^{-1} 10 to 10^2 °C/sec. for the Pt-Cu-P based structure and 10^1 to 10^2 °C/sec. for the Pt-Pd-Cu-P based structure.